

14 Khin 1911/15/-DR-1127

REPORT DOCUMENTATION PAGE	READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER 2. GOVT ACCESSION NO	
OR-1180 NUM AD-ALOY	15.37:10
A TITLE (and Substitute)	5. TYPE OF REPORT & PERIOD COVERE
19304A MLRS,	
Missile No☆ BK002, BN007, BN008	.,
Round No. V-146/MD-13, V-147/MD-14, V-148/MD-15	6 PERFORMING ONG. REPORT NUMBER
7/	12611 11 Z18Z
7. AUTHOR(a)	B. CONTRACT OR GRANT NUMBER(4)
Lance of the contract of the c	16
White Sands Meteorological Team	DA Task 1F665702D127-02 /
White Sands Meteorological Team Performing Observation Name and Address	10. PROGRAMICEMENT, PROJECT, TASK
1 of the total	AREA & WORK UNIT NUMBERS
(+ 1 · 2	
	11/2 12/2
11. CONTROLLING OFFICE NAME AND ADDRESS US Army Electronics Research & Development Cmd	May 2001
Atmospheric Sciences Laboratory	May 1981
White Sands Missile Range, New Mexico 88002	26
14. MONITORING AGENCY NAME & ADDRESS(If different from Controlling Office)	15. SECURITY CLASS. (of this report)
Wa	
US Army Electronics Research & Development Cmd	UNCLASSIFIED
Adelphi, MD 20783	15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report)	L
is. US) RIGUITOR STRIEMERY (OF MITE REPORT)	
	, to the land
$\mathcal{A}(\mathcal{J})$	
17. DISTRIBUTION STATEMENT (of the ebstrect entered in Block 20, If different fro	om Report)
17. DISTRIBUTION STATEMENT (of the ebetrect entered in Block 20, if different from Approved for public release; distribution unlimit	
Approved for public release; distribution unlimi	
Approved for public release; distribution unlimi	
Approved for public release; distribution unlimi	
Approved for public release; distribution unlimi	ted.
Approved for public release; distribution unlimi	ted.
Approved for public release; distribution unlimi	ted.
Approved for public release; distribution unlimi	ted.
Approved for public release; distribution unlimi	ted.
Approved for public release; distribution unlimits. SUPPLEMENTARY NOTES. 18. KEY WORDS (Continue on reverse side if necessary and identify by block number.)	ted.
Approved for public release; distribution unlimits. Supplementary notes 18. Supplementary notes 19. Key Words (Continue on reverse side if necessary and identify by block number, and identify by block number, and identify by block number)	ted.
Approved for public release; distribution unlimit 16. SUPPLEMENTARY NOTES 19. KEY WORDS (Continue on reverse side II necessary and identify by block number, 20. Approved for public release; distribution unlimit 20. Meteorological data gathered for the launching of	of the 19304A MIRS. Missile
Approved for public release; distribution unlimit 18. SUPPLEMENTARY NOTES 19. KEY WORDS (Continue on reverse side it necessary and identify by block number) Meteorological data gathered for the launching of BK002, BN007, BN008, Round No. V-146/MD-13, V-14	of the 19304A MIRS. Missile
Approved for public release; distribution unlimits. Supplementary notes 18. Supplementary notes 19. KEY WORDS (Continue on reverse side if necessary and identify by block number, and identify by block number, and identify by block number).	of the 19304A MIRS. Missile

DD 1 JAN 73 1473

41166

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

SECURITY CLASSIFICATION OF THIS PAGE(When Date Entered)	
	ļ
	ļ
	į
	}
	j
]
	1
·	i
	İ
	Ì
	į
	1
	ŀ
	j
	į
	ĺ
	İ
	1
	}
	ĺ
	1

CONTENTS

		PAGE
INTRODUC	CTION	1
DISCUSS	ON	1
MAP		2
TABLES:		
1.	Surface Observations taken at 1511 MDT at LC-33	3
2.	Anemometer-Measured Wind Speed and Direction, LC-33 Fixed Pole, taken at 1511 MDT	4
3.	Anemometer-Measured Wind Speed and Direction, Tower Levels 1, 2, 3, and 4, taken at 1511 MDT	4
4.	T-Time Pilot-Balloon Measured Wind Data	5
5.	Aiming and T-Time Computer Met Messages	6
6.	LC-37 Significant Level Data at 1100 MDT	7
7.	LC-37 Upper Air Data at 1100 MDT	8
8.	LC-37 Mandatory Levels at 1100 MDT	10
9.	WSD Significant Level Data at 1200 MDT	11
10.	WSD Upper Air Data at 1200 MDT	12
11.	WSD Mandatory Levels at 1200 MDT	14
12.	LC-37 Significant Level Data at 1300 MDT	15
13.	LC-37 Upper Air Data at 1300 MDT	16
14.	LC-37 Mandatory Levels at 1300 MDT	18
15.	WSD Significant Level Data at 1511 MDT	19
16.	WSD Upper Air Data at 1511 MDT	20
17.	WSD Mandatory Levels at 1511 MDT	22

INTRODUCTION

19304A MLRS, Missile Numbers BK002, BN007, and BN008, Round Numbers V-146/MD-13, V-147/MD-14, and V-148/MD-15, were launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1511:00, 1511:05, and 1511:10 MDT, 26 May 1981. The scheduled launch times were 1400:00, 1400:04.5, and 1400:09 MDT.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

- a. Surface
- (1) Standard surface observations to include pressure, temperature (°C), relative humidity, dew point (°C), density (gm/m 3), wind direction and speed, and cloud cover were made at the LC-33 Met Site at T-0 minutes.
- (2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.
 - b. Upper Air
- (1) Low level wind data were obtained from RAPTS T-9 pibal observations at:

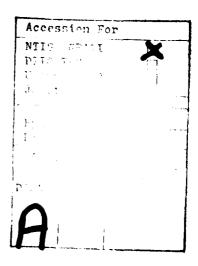
SITE AND ALTITUDE

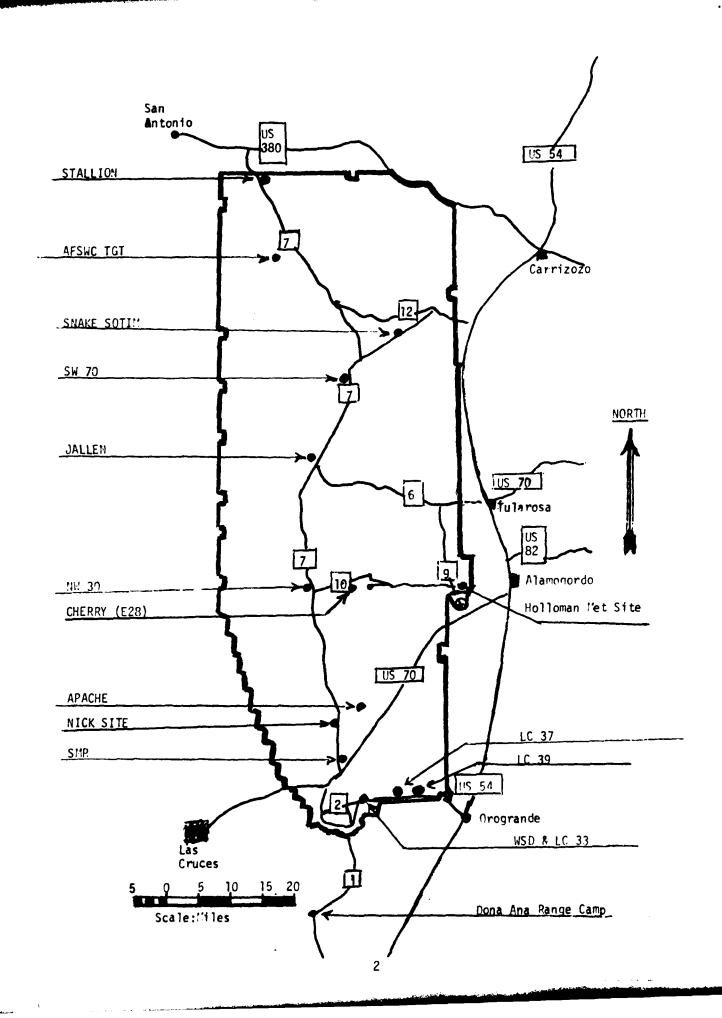
LC-33 2 KM SMR 2 KM

(2) Air structure data (rawinsonde) were collected at the following Met Sites:

SITE AND TIME

LC-37	1100	MDT
WSD	1200	MDT
LC-37	1300	MDT
WSD	1511	MDT





PROJECT SURFACE OBSERVATION

TABLE	1						Ο,	STATION LC-33	.c-33		
DATE 26	DATE 26 MAYTH YEAR	1881	l					(= 484,982.64	<u></u>	X= 484,982.64 Y= 185,957,73 H= 3983.00	3983,00
11ME M D _1	PRESSURE TEHPERATURE mbs of oC	TE: PER OF	ATURE OC	DEW POINT OF OC	[PELATIVE HUMIDITY %	DENSITY gm/m ³	DIRECTIC degs Tr	WIND SPEED kts	WIND ON SPEED CHARACTER A kts	VISIBIL- ITY
1511	875.2		32.5		4.8	18	991	320	88		20
		 -				•					, ,

REMARKS																		
SOLIO LO	3rd LAYER	PE HG																
		AMT TY																
	2nd LAYER	R		CI 25,000														
		TYPE	ΙЭ															
		AMT	2															
								α	αí.	۵í.	ď	ď		a:	<u>α</u> :	<u>a</u> :		AC 16,500
		TYPE	AC															
	Js	AMT	4															
OBSTRUCTIONS St LAYER TO VISIBILITY AMT TYPE HGT																		

TATION						
IC COME	1511	32.5	15.9	16.6	4.8	01
PSYCHROMETRIC COMENTATION	TIME: MOT	ORY BULB TEI'P.	WET BULB TEIP.	WET BULS DEPR.	DEW POINT	RELATIVE HIMIN

POLE #1 X485,874.29 Y185,958.90 H4018.74 38.7 ft. AGL		X485,876 Y186,012 H4033.5	POLE #2 X485,874.93 Y186,012.00 H4033.57 53.0 ft. AGL			POLE #3 X435,377 / 1 Y136,116.06 H4063.92 83.6 ft. AGL		
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPLEN (+ TS	T-TIME SEC	DEG DEG	PEED RTS
I-30	288	13	T-30	295	10	T-30	292	14
<u>T-20</u>	278	12	T-20	285	10	T-20	287	11
T-10	273	10	<u> T-10</u>	282	09	T-10	283	12
T0.0	267	10	T0.0	282	07	T 1.0	289	11
T+10	268	10	<u> T+1:)</u>	266	08	T+10	273	10

TABLE 3 LC-33 METEOROLOGICAL	TOWER ANEMOMETER MEASURED WINDS (202 FT TOWER)
------------------------------	--

LEVEL #1, 1. X484,982.64		73, H3983.00 (base)	LEVEL #2, 62 FEET X484.982.64, Y185,057.73, H3983.00 (base)			
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS	
T-30	295	10	T-30	294	10	
T-20	288	09	T-20	289	08	
T-10	291	06	T-10	285	09	
T0.0	318	07	T0.0	278	08	
T+1 0	297	06	T+10	290	08	

LEVEL #3, 10 X484,982.64	02 FEET , Y185,057.7	3, H3983.00 (base)	LEVEL #4, 202 FEET X484,982, Y185,057.73, H3983.30 (base)				
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIP DEG	SPEED + TS		
T-30	284	10	T -30	288	10		
T-20	285	09	T -20	284	11		
T-10	280	09	T -10	282	10		
10.0	287	09	T 0.0	280	10		
T+10	287	10	T +10	288	09		

TABLE___4__

T-TIME PILOT-BALLOON MEASURED WINE DATA DATE 26 May 1981

 SITE:
 LC-33
 SITE:
 SMR

 TIME:
 1511 MDT
 TIME:
 1511 MDT

 WSTM COORDINATES:
 WSTM COORDINATES:

 X= 485,135.76
 X= 472,444.85

 Y= 185,919.24
 Y= 213,781.96

 H= 3988.57
 H= 4000.99

LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS	LAYER MIDPOINT METERS AGL	DIPECTION DEGREES	SPEED KNOTS
SURFACE	320	80	SURFACE		
150	298	10	150		
210	289	80	210	DATA	INVALID
270	298	06	270		
330	264	04	330	DUE TO	TRACKING
3 90	271	07	390		
500	263	05	Son	ER	ROR
650	260	06	650		
800	264	06	. 800		
950	264	07	950		
1150	251	09	1150		
1350	253	06	1350		
1550	255	09	1550		
1750	242	09	1750		
2000	239	11	2000		

Data obtained from RAPTS T-9 Tracking Pilot-Balloon Observation.

TABLE 5

AIMING AND T-TIME COMPUTER MET MESSAGES 26 May 1981

LC-37 11 METCM13240 2617001248		WSD 1200 METCM13240 2618001228	
00151003	30360876	00142005	30370877
01078005	30110866	01285010	30230868
02021006	29770841	02165003	29910843
03040006	29380803	03157005	29530805
04627006	28890758	04184002	29040760
05506009	28450714	05063004	28540716
06473012	27980672	06580006	28080674

LC-37 1: METCM13240 2619001248		WSD 151 METCM13240 2621201228	
00213002	30430875	00533010	30660875
01164004	30190865	01487017	30520865
02000000	29870840	02508013	30200841
03407004	29480803	03480013	29760804
04428010	28960757	04467014	29220759
05452013	28490714	05458014	28710715
06380010	28010672	06458013	28230674

7 1001	ASCENSION NO. 104
-57	26 MAY RI 1790 HRS MDF
14	ITIVOL
STGRIFIC	

STGRIFICAUT LLVLL DAFA	1460100104	LC-37	TABLE 6
	1 HSL	4Dr	•

JEODETIC COORDINATES 32.40175 LAT DEG 106.31232 LON DEG

KEL . HUM.	PLKCENT		15.0	23.0	25.0	31.0	35.0	37.0	43.N	0.00	0.7.0	54.0	19.U	79.0	33.0	37.0	43.n	36.0	38.0	62.0	0.50	0.7.0	55.0	60.0	52.0	0.84	50.0	C 83
TEMPERATURE	DE WEDINI	CENT 1 GHADE	Ŋ	0	ر د.	~ ~	-1.9	7, 61-	-10.1	9.7-	ا. د. د	4.6-	-23.7	-13.6	-17.3	-19.5	-21,3	-24.0	-20.6	-25.3	4.42-	-25.1	4.72-	-29.7	-3%.5	-35.8	40.0	-46.0
TEMPE	AIK	PEGREFS	29.5	26.8	24.5	16.5	14.1	9.6	5.5°	-1.0	-1.3	-1 • 4	-3.5	-3.1	4°€-	4.7-	-11.2	-12.0	-15.6	=17∙8	-19.5	-20.6	-20.8		-25.6		-33.7	
GFOMFIRIC	ALTITUDE	MSL FEET	4651.4	4294.8	4705.8	7729.1	8592.5	10338.8	11735.9	13606.6	14094.0	14757.7	16354.8	16758.9	17577.0	19188.2	20514.5	21379.4	23094.4	23976.3	24775.3	25074.1	25528.2	26946.6	27698.1	_	31085.2	
PKESSURE		MILLIHARS	375.5	668.2	650.0	769.4			æ	ۍ		_							428.2								06.8	300.0

UPPER AIR DAIA 1460180104 ري دي

DETIC COOKDIMATES 32-40175 LAT DEG 106-31232 LON DEG		THUEX	OF REFRACTION	1.000250	1.000257	1.000253	1.000249	1.000245	1.000241	1.000237	1.000254	1.000230	1.000226	1.000222	1.000219	1.000215	1.000212	1.000208	1.000205	1.000202	1.000200	1.000197	1.000194	1.000193	1.000187	1.000161	1.0001/5	1.00016	0010001	1.000101	1.000159	1.000156	1.000154	1.1000.1	1.000149	1.000147	1.000143	1.000140	1.000138	1.000136	1.000133	1.000132
JEODETIC 32.40 106.31		4.	SPEED	2.9	3.1	6. 4.	5.5	9•9	6.5	ತ್ತ ೨	و. د.	٠٠٥		z.	7.5	s • 6	11.2	7.5	12.9	14.2	15.6	18.0	20.6	21.9	23.1			7 2 2	7		12.0	10.6	o.	11.0	13.1	10.5	o . 61	23.5	# C C	20°4	27.1	\$ 9.
		KIND UNIW	DIRECTION LEGREES (TN)	85.0	0.00	36.5	23.8	10.3	15.3	14.2	0.7	551.7	332.5	514.8	0.862	287.8	2/3.1	2/0.2	20.500	2.662	4.56.5	251.0	548.6	7.657	6.642	6.042	247.5	2.7.4%	6.1.6.2	26/07	273.6	242.6	9.46.2	20105	9.4u¢	302∙8	3000	0./1,7	2.000		2.4.4.2 2.4.4.2	2.002
ر بان 140		SPLED OF	SOUND	678.0		073.0		669.7	0.699		064.7																		T • 11 + C				030+0	634.3		-					_	2+639
UPPER ADE DATA 1460160104 LC-37	TABLE 7		GRZCUNIC METER	1005.1	1000.3	989.0	970+5	964.1	6•156	6 ₹6	92,3+1	910.5	904.3	8,12.2	880.5	863.3	8,00.7	845.5	8.34 • 4	R23.B	A13.5	803.5	793.t	780.5	760.0	7.2.8	9.01/	7.03.th	7017	6839	670.0		h• 530,53	649.0	639.9	6.073	619.7	600	5.605	6.6974	550.6	0.174
۷	H	REL.HUM. DENSITY	PERCENT	15.0	23.7	25.2	26.3	27.3	24.4	29.5	30.5	31.6	32.8	y•00	35.1	36.2	37.1	39•B	42.0	\$ ° 5 \$	6 ° 6 ° 6	0.46	59.0	65.6	59.0	/ t x + 1	7 • 7 0	20.00	0.0		34.1	35.3	36.5	38.4	40.7	42.9	39.1	36.1	35.7	0.70	0.45	E-0.7
ري 10.		TEMPERATURE	DEMPOINT CENTIGRADE	• 5	7.7	3.1	2.5	1.8	1.1	5 •	٠.	-1.0	æ: (-	0.4	-S-	6.5	Ն• Ե•	្រ ម	7.67	-6.2	-(·•5	0-7-	-7.6	8°%-	۳. د د د	-11:1	2 - 2 - 1	+ · · · · · · · · · · · · · · · · · · ·	1.00	17.4	-17.9	-18.6	-10.3	6.01-	-20.6	11	H-68-	-54.5	6.521	1.5.2	126.5	174.1
1951-37 FFET , SL 1950 HRS MD:		TEMPE	AIR DEGREES	29.5	20.0	24.5	22.B	21.4	20.0	18.6	17.1	15.7	5.5	13.0	11.d	10.5		7.7	r•5	0 ·	2.8	7.7	i C	-1.2	-) · [-	7.	1 - C - I		3 - 0	-4.5	-5.7	6.9-	-0.3	7.6	-11.2	9.11-	-12.3	-13.5	+ · · · · · · · · · · · · · · · · · · ·	15.4	110.0
UDL 4		PRESJURE	HILLIUARS	875.5	362.n	841.2	H32.4	817.8	803.5	783.5	175.6	6.19/	140.4	7.00	121.	/ 100 /	5.06g	683.1	070.00	650.2	540.0	633.9	1.729	610.4	0.000 0.000 0.000	0.22	1010	5,54,7	7.00	530.B	520.6	510.5	7.504	492.9	484.3	474.0	40.00	420.4	# / # t	0.000	100 m	7.124
STATION ALTITUDE 4. 26 TAY 81 ASCLASIUN NO. 104		GEUNE TRIC	ALTITUDE MSL FEET "	4051.4	4500.0	5000.0	5500.0	0.0000	n•00¢n	u•0uu/	0.0047	3000s	3500.0	0.0000	9500 P	U-00001	10500.4	11000.0	11500.0	12000-0	12500•0	0.00001	1.5500.0	14000.0	14507.	15000.1	1.000.1	14500.0	17000-0	17500.0	16000.0	18500.0	19000	19500.0	20000-0	20500.0	<1000·0	21500.0	J-00077	J•60522	23000-6	0.000c2

JEOULTIC COOKUTMATES 52.40175 LAT DEG 106.31232 LON DEG	INUEX OF REFRACTION	1.000131	1.000128	1.000126	1.000123	1.000121	1.000119	1.000117	1.000114	1.000112	1.090110	1.000108	1.000106	1.000194	1.000103	1.000101	1.000099
JEOUL TTO 52. 106.	JPEEU KNOTS	25.5	23.0	19.9	18.9	18.6	19.9	21.7	22.3	22.4	23.4	9.42	25.5	26.2	25.8		
	WIND DATA DIRECTION SA DEGREES(TH) KN	∠83•3	242.0	202.7	582·B	502.9	281.6	280.1	271.0	275.3	273.9	575.9	615.9	275.5	279.4		
< + +	SHEED OF SOUND KNOTS	622.7	621.4	619.7	619.1	617.7	616.2	614.7	613.5	612.2	610.7	2.600	t+004	5.000	604.7	603.2	6.01.7
JPPER AIR DATA 1450150104 LC-37 TABLE 7 CON'T	DENSITY S GMZCUBIC METER	562.H	5,3.8	545.6	535.0	527.1	518.8	510.5	501.9	403.7	4.P.5.8	6.77.	470.1	462.4	6•454	447.5	440.1
	REL.HOM. PERCERIT	62.1	64.0	66.5	55.7	56.7	58.4	50.4	54.1	50.0	2.64	48.2	48.6	0.64	49.5	6.64	48.4
ig ja	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	-23.3	-24.0	-24.9	-27.3	-24.5	-50.0	-50.9	-31.8	-33.4	-34.9	-36.2	-57.2	-3n.2	-30.3	-40.3	-41.7
1.37 FGE 60 1835	TEMF AIR DEGALES	-17.9	-18.9	-20.3	₽•02-	-21.9	-23.1	124.3	-25.2	-26.3	-27.5	-28.7	6.66-	-31.1	-32+3	-33.5	-34.7
STALLON ALTITUDE 4051.37 FEET 151 26 may 81 Ascensiou no. Inh	PRESJURE NILLIDARS	412.8	404.5	390.3	380.2	580.3	372.5	364.9	357.5	34.3.0	342.0	330.5	320.3	521.4	314.6	307.9	301.3
STALLON ALTITUDE 40 26 may bl Ascension no. Inh	GEUMETRIC ALIITUDE MSL FEET	24000.0	24500.C	3.00005	25500.0	000007	200002	0.0007.7	6.1500.0	200005	28500.0	2000 0. 0	29500 · n	30000	30500.0	31000.0	31500.0

STATION ALTITUDE "U" 1 - 77 FEFT SL 26 MAY HI 1 100 MRS ADT ASCLUSIUM NO. 194	FT SL	M.: TAI	FIANDATORY LEVELS 1460160104 LC-37 TABLE 8	EVELS U4		GEODLTIC COOKDINATES 32-40175 LAT DEG 106-31232 LON DEG
PRESSURE	PRESSURE GEOPOLERITAL	•	TEMPERATURE	KEL . HUM.		(1A)
MILLIBAKS	FEET	DEGREFS CENTIGRADE	PEWFOANTE	PERCENT	UEGKEES (TN)	KNOTS
n•958	4902.	24.5	3,5	\$2 •	39∙8	3.A
₩ 0.00%		13.6	1.0	29•		5•0
0.0.7	8433.	14.5	-107	33.		5.1
r. 197		9.6	7.5-	37.		10.6
0.50.n		3.4	4.9-	48.		15.1
₽• 009		-1.4	-8.1	•09		3.0
950°U		-3.1	-19•0	28•		14.3
500.4		-7-4	-19•5	37.		10.1
0.054		-13.0	-24.7	37.		4.B
₽•00h		-19.5	h•h2-	65 •		-1.4
350.0		-26.3	-33.4	51.		t;• 70
0.00*		- 34.9	-42.0	4,77.		

IION ALTITUDE 3989.00 FFET MSL 187 BI 12°N HRS HDT LNSIUH HO. JS9	MSL IT	SIGNIFIC, 140 WHI TABLE 9	SIGNIFICANT LEVLL DATA 1460020359 WHITE SANDS TABLE 9	ATA	JEOULTIC COOKUINATES 32.40043 LAT UEG 106.37033 LON DEG
PKESSURE MILLIRARS	PKESSURE GFOMETHIC ALTITUDE ILLIRARS MSL FEET	TEMPE AIR DEGREFS	TEMPERATUKE AIR DEWPOINT DEGREFS CEPTIGKADE	REL.HUM. PERCENT	
4.77.4 0.028	3~89•0 4000	29.5	6.7	18.0	
788-6	7049.5	19.7	; ;	0.42	
20°002		9.5	# # 1	36.0	
h•109		<u>۰</u>	-b.a	52.0	
590.₽	14733.2	ó••	-12.5	41.0	
2.44.5		-1.7	-17.4	29.0	
54 7 •8		-2.7	-14.1	41.0	
9.004	_	-7.1	-20 · to	33.0	
Ø•0€#	•	-16.3	-25.7	U* ††	
0.004	· V	-20.5	-25.0	67.0	
393.4		-21.5	-24·b	76.0	•
するのかつ	28332.4	-27.5	-34.5	51.0	
300.0		-35.8	-43.0	H.7.0	

GEODETIC COORDINATES 32.40043 LAT EEG 106.37033 LON DEG	-	S REFRACTION	5.1 1.000255	5.1 1.000255	1	-	-		-	-	3.1 1.00023 2 4 1.00023			-	3.6 1.000214	.0	-	7	-	4.8 1.000199	-	-	-	9.6 1.000170		-	-	1	-	-		-			_		Thinnn-I C-02	-	22.1 1.000137	-
0.30°	AIND DAIA	DEGREES (TN) KNOTS	ე ი•ua		83-1						0.00				20.8				_	-	_	-	-	200.9	•		-	1	_	_		-		- •					7.102	
۵۰۱۸ دور دان	SPEED OF	SOUND KNO 1 S	676.8	8.070							0.000					655.3		_				_		2 · C b · C		_	_		-		_	_								/ • • · · · ·
UFPLR AIN OATA 1460020355 WHITE SANDS TABLE 10	DENSITY CRYCHOIC	METER	1000-7	1006.5	990.5	985.6	973.2	6.096	946.7	8.006 8.006	925.1	901.0	840.5	879.4	868.5	A57.3	A45.3	833.5	821.9	910.4	793.2	7.98 • 1	777.2	8.40/	734.7	725.8	713.5	701.7	690.7	6.679	669.3	9.90°	648.7	5.53.5 .0.53.5	629.5	F. 619	1010	50110	5.5.C	3 • C () (
· F	REL.HIM.	בער	18.0	13.0	19.1	20.5	21.1	22.0	23.0	2.50	0.70	€ 600 1000	31.1	52.9	34.7	36.6	38.7	40.8	42.9	45.0	47.1	2.04	51.3) * C =	35.2	30.0	35.3	40.5	38.9	37.2	35.55 3.55 3.55	55.4	Σ• ΩΩ	5.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	36.7	3.0.4.	0 0 0 0	- C		
r sa. NDT	TEMPERATURE R DEMEDINE	CENTIGRAPE	2.1	2.7	1.03	1.0	Ŝ.		\ • • • • • • • • • • • • • • • • • • •	· I I	-2-1	, C	-3.1	-3.7	-4.5	6-11-	-5.3	-5.A	-6.3	•6•8	-7-14	0 · K ·	0 : ·	13.7	-14.7	-1h.9	-15.5	-14.5	-15.8	-17.2	-14.6	11.07	6.50	C . [// .	-22.1		0.00	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	******	2.0
19.00 FEF	TEMP	S DEGNEES	29.5	29.5	27.4	25.4	24.0	22.6	21.5	2 M	0.0	15.2	13.7	12.1	10.6	9•1	7.9	و. د.ه	5•3	0 • 4	2•8	1•5	N 8	•	-1.3	-1.6	-2.2	-2•9	-3.9	ਤਾ । ਹੈ।	-5.7	• • •	4.7°		Z•uL-	4.7.	2.71	0.01	11001	
111UDL 392 1 1.059	PRESJURE	MILLIDARS	877.4	877.1	364.1	04/.3	356.6	810.1	2002	777	767.	743.5	735.1	724.3	70%	690.3	4.089	671.9	654.4	640.2	03403	626.5	6116 503	5800	577.2	560.3	555.5	540.0	534.6	524.3	514.5	* * * iii	# C = = = = = = = = = = = = = = = = = =	: *	** n/ *	10001	6.000		7 - 6/6 +	\ • 20 h
STATION ALTITUDE 3939.00 FEFT (SL 26 MAY 31 1200 HRS NDT ASCENSION NO. 559	GE UNE TRIC	TSL FEET	5989•0	6•0 ₀ 0+,	4500.0	5000•0	5500.0	Ŭ•Û00°·	n•0u3a	6.0007	0.000x	0.000	0.000K	0.0021	0.00001	10500.0	110001	11500.5	12000-0	12500.0	13000.0	15500.0	14000.0	0.00041	1.500341	10000	16500.0	17000.0	17500.0	10000	10500	1.0000	1.500.0	G·mma>	U•005.02	0.00015	0.00012	0 00 J. V	0.00022	

TEMPERATUPE REL-HUM, DFUSITY SELFO OF WITHOUN DATA ALE DEWPOTHT PERCENT GMZCURIC SOUND DIRECTION SPE. PERCENT GMZCURIC SOUND DIRECTION SPE. 19-6 -25-3 50-1 574-2 623-2 200-2 200-2 200-2 200-3 277-6 200-4 277-6 200-4 277-6 200-4 277-6 200-4 277-6 200-4 277-6 200-4 277-6 200-4 277-6 200-4 277-6 200-4 277-6 200-4 277-6 200-6	I ALT	JDL 399	189.00 FFFT (ISL 1.200 HRS MDF	-T (35L) Μ ΟΓ	-	UPPLP AIM DATA 1460020359 BHITE SANDS	۸۲.22 دورون ۱		JE 00L TI	GEODETIC COOKUINATES
TEMPLATUPE REL.HUM, DFINSITY SELFO OF SOUND WIND DATA IN AIR JEWPOINT PERCENT 6MCUBIC 50000 0104 0104 0104 0 </th <th>oġ.</th> <th>986</th> <th></th> <th></th> <th>F</th> <th>ABLE 10 CO</th> <th>1.8</th> <th></th> <th>106.</th> <th>37033 LON DEG</th>	oġ.	986			F	ABLE 10 CO	1.8		106.	37033 LON DEG
-17.4	P	ESSURE LIDARS		PERATUPE JEWPOINT CLNTIGRADE	REL.HUM. PERCENT	DENSITY GMZCURIC NETER	SELFU OF SOUND NUOIS	UIK DEGRL	IA SPEEU KNOTS	INDEX OF REFRACTION
-18.6 -26.6 565.3 621.4 200.2 26.9 -19.8 -24.0 63.0 550.5 020.4 277.6 26.4 1 -21.0 -24.8 71.3 547.8 614.9 277.2 26.4 1 -22.1 -24.8 71.3 534.9 617.0 276.0 26.6 1 -23.0 -27.0 60.7 529.6 610.1 277.1 26.5 1 -24.0 -27.0 60.7 529.6 610.1 277.1 26.5 1 -24.0 -30.1 61.7 570.9 610.1 277.3 26.4 1 -24.0 -30.1 61.7 570.9 570.4 1 26.9 1 -24.9 -30.1 61.5 611.5 200.4 25.2 1 -27.9 -34.9 50.8 477.1 600.6 270.2 25.2 1 -27.9 -36.2 50.8 477.1 600.6 270.2 </td <td></td> <td>421.9</td> <td>-17.4</td> <td>-25.43</td> <td>50.1</td> <td>574.</td> <td>_</td> <td>3.50×</td> <td>7.73</td> <td>1.000132</td>		421.9	-17.4	-25.43	50.1	574.	_	3.50×	7.73	1.000132
-19.8 -25.0 63.0 550.5 020.4 277.6 26.4 1 -21.0 -24.8 71.3 547.6 616.9 277.2 26.5 1 -22.1 -25.5 73.7 536.9 617.6 276.0 26.5 1 -23.0 -27.0 69.7 529.8 610.3 277.1 26.5 1 -24.0 -27.0 69.7 520.9 610.1 277.3 26.4 1 -24.0 -30.1 61.7 520.9 613.9 277.3 26.4 1 -24.0 -30.1 61.7 570.9 613.9 277.3 26.4 1 -24.9 -31.7 57.7 503.6 611.5 274.5 25.5 1 -27.9 -34.9 50.8 477.1 608.6 271.7 244.9 1 -27.9 -36.2 50.8 477.4 608.6 271.4 25.8 1 -27.9 -36.2 40.8 </td <td></td> <td>410.4</td> <td>-18·h</td> <td>0.42-</td> <td>9.99</td> <td>565.3</td> <td>Ī</td> <td>20045</td> <td>26.9</td> <td>1.000131</td>		410.4	-18·h	0.42-	9.99	565.3	Ī	20045	26.9	1.000131
-21.0		400.0	-19.8	0.52-	63.0	556.5		277.8	26.4	1.000129
-22.1 -25.5 73.7 53a.9 617.6 276.6 1 26.6 1 25.0 -25.0 -27.0 69.7 529.6 clo.3 277.1 26.5 1 26.5 1 24.9 -24.0 -27.1 26.5 1 27.1 26.5 1 27.1 26.5 1 27.1 26.5 1 27.1 26.5 1 27.1 26.5 1 27.1 26.5 1 27.1 26.5 1 27.1 26.5 1 27.1 26.5 1 27.1 26.5 1 27.1 26.5 1 27.1 26.5 1 27.1 26.1 27.1 26.1 27.1 27.1 27.1 27.1 27.1 27.1 27.1 27		320.8	-21.0	-24.8	71.3	547.9		217.5	26.5	1.000127
-23.0 -27.0 69.7 529.6 clo.3 277.1 26.5 ll -24.0 -23.0 -27.4 520.9 clo.1 277.3 26.4 ll -24.0 -24.5 520.9 clo.1 277.3 26.4 ll -24.9 -30.1 61.7 512.2 cld.9 271.7 25.5 ll -25.9 -31.7 57.7 60.5 cld.9 271.7 24.9 ll -25.9 -33.4 53.7 495.2 cld.9 204.8 25.2 ll -27.9 -36.2 b0.2 479.1 cld.6 270.2 25.8 ll -27.5 49.6 477.4 cld.9 273.4 26.5 ll -33.0 -40.1 48.4 456.4 cld.8 273.4 26.5 ll -33.0 -40.1 48.4 449.1 cld.6 -3 -33.5 -42.7 47.1 441.9 cld.6 5		388.7	-22-1	-25.5	73.7	530.9		9-76-5	26.6	1.000125
-24.0 -28.5 65.7 520.9 615.1 277.3 26.4 1 -24.9 -30.1 61.7 512.2 613.9 274.5 25.5 1 -25.9 -31.7 57.7 503.6 012.7 271.7 24.9 1 -25.9 -33.4 53.7 49.5 611.5 204.8 25.2 1 -27.9 -36.2 10.2 479.1 600.6 270.2 25.2 1 -30.5 -37.5 49.6 477.4 607.0 271.8 25.8 1 -31.7 -38.8 49.0 463.8 005.4 273.4 26.5 1 -33.0 -40.1 48.4 456.4 603.8 273.4 26.5 1 -34.2 -42.7 47.1 441.9 600.6		590.7	-23.0	-27.0	69.7	529.6		271.1	26.5	1.000122
-24.9 -30.1 61.7 512.2 613.9 274.5 25.5 1 -25.9 -31.7 57.7 503.6 012.7 271.7 24.9 1 -25.9 -33.4 53.7 495.2 611.5 209.3 25.1 1 -27.9 -34.9 50.8 487.0 610.2 200.6 25.2 1 -27.9 -36.2 479.1 600.6 270.2 25.2 1 -30.5 -37.5 49.6 471.4 607.0 271.8 25.8 1 -31.7 -36.8 49.0 465.4 603.4 273.4 26.5 1 -33.0 -40.1 48.4 449.1 603.8 273.4 26.5 1 -34.2 -42.7 47.7 449.1 602.4 1 -35.5 -42.7 47.1 441.9 600.6 1		572.8	154.0	-29.5	65.7	520.9		277.5	56.4	1.000120
-55.9 -51.7 57.7 505.6 012.7 271.7 24.9 11 -25.9 -53.4 53.7 495.2 611.5 209.5 25.1 11 -27.9 -54.9 50.8 487.0 610.2 204.8 25.2 11 -27.9 -36.2 50.2 479.1 600.6 270.2 25.2 11 -30.5 -37.5 49.6 49.6 607.0 271.8 25.8 11 -31.7 -36.8 49.0 465.8 605.4 273.4 26.5 11 -33.0 -40.1 48.4 456.4 603.8 273.4 26.5 11 -33.0 -40.1 48.4 449.1 602.2 13.4 141.4 47.7 449.1 602.2		365.1	6.42-	-30.1	61.7	515.2		5.44.2	25.5	1.000117
-26.9 -33.4 53.7 495.2 611.5 209.5 25.1 1 -27.9 -34.9 50.8 487.0 610.2 20d.8 25.2 1 -29.2 -36.2 50.2 479.1 600.6 270.2 25.2 1 -30.5 -37.5 49.6 471.4 607.0 271.8 25.8 1 -31.7 -38.8 49.0 465.8 605.4 273.4 26.5 1 -33.0 -40.1 48.4 456.4 603.8 273.4 26.5 1 -34.2 -41.4 47.7 449.1 602.2		357.6	P-25.9	-31.7	57.7	503.0		271.7	54°C	1.000115
-27.9 -34.9 50.8 487.0 610.2 20d.8 25.2 1 -29.2 -36.2 50.2 479.1 600.6 270.2 25.2 1 -30.5 -37.5 49.6 471.4 607.0 271.8 25.8 1 -31.7 -38.8 49.0 465.8 605.4 273.4 26.5 1 -33.0 -40.1 48.4 456.4 603.8 273.4 26.5 1 -34.2 -41.4 47.7 449.1 602.2 1 135.5 -42.7 47.1 441.9 600.6		350.2	-26.9	4.5.4	53.7	1195.2		209.3	25.1	1.000113
-29.2 -36.2 50.2 479.1 600.6 270.2 25.2 1 30.5 -37.5 49.6 471.4 607.0 271.8 25.8 1 21.7 -38.8 49.0 465.8 605.4 273.4 26.5 1 -33.0 -40.1 48.4 47.7 449.1 602.2 -33.5 -42.7 47.1 441.9 600.6		342.9	-27.9	-34.9	50.8	487.0		200.8	25.2	1.000110
-30.5 -57.5 49.6 471.4 607.0 271.8 25.8 1 23.7 -38.8 49.0 463.8 605.4 273.4 26.5 1 -33.0 -40.1 48.4 456.4 605.8 -34.2 -41.4 47.7 449.1 602.2 -35.5 -42.7 47.1 441.9 600.6		333.6	2.64-	-36.2	50.5	479.1		2,075	25.5	1.00108
-31.7 -38.8 49.0 463.8 605.4 273.4 26.5 1 33.0 -40.1 48.4 456.4 605.8 -34.2 -41.4 47.7 449.1 602.2 -35.5 -42.7 47.1 441.9 600.6		320.5	-30.5	-37.5	9°6h	1171.4		271.8	25.8	1.000107
-33.0 -40.1 48.4 456.4 603.8 -34.2 -41.4 47.7 449.1 602.2 -35.5 -42.7 47.1 441.9 600.6		321.5	-31.7	-38.B	0.64	463.8	_	273.4	26.5	1.000105
-34.2 -41.4 47.7 449.1 602.2 -35.5 -42.7 47.1 441.9 600.6		514.7	-33+0	1.04-	48.4	4.96.4				1.000103
-35.5 -42.7 47.1 441.9 600.6		300.0	-34.2	t • (t-	47.7	1.644				1.000101
		301.5	-35.5	-42.7	47.1	6.141				1.000099

AF DATOPY LEVELS 1460020359 EHITEAI.JS	IABLE II FRITAL TEMPENATURË REL•HU4• "LUD DA	AIR DEWPOINT PERCENT DIRECTION DEGREES CENTIGRADE	49no. 25.7 1.1 20.	60.3H. 20.R9 23. 91.4	8449. 15.4 -2.5 29. 73.1	10547. 2.5 -4.8 30. 15.9	12347. 4.4 -6.6 44. 281.3	144655 -10.3 47. 259.2	167412.6 -14.5 59. 260.5	192017.1 -29.0 33. 291.0	2186513.5 -24.0 41. 289.7	2186513.5 -24.0 41. 289.7 2475520.5 -25.0 67. 277.4	192017.1 -29.0 30. 2186513.5 -24.0 41. 2475520.5 -25.0 67. 2796726.9 -33.4 54.	UL JyBy.nn FELT 12nn HRS 2 359 PHESSURE GE MILLIAAKS ASJ.n ASJ.n ASJ.n ASJ.n ASJ.n ASJ.n ASJ.n ASJ.n	TNIAL T T 100 119 147 47 41	TABLE 11 TEMPENATURE A1R DEGREES CENTIGRAL 25.7 1.1 25.7 1.1 20.89 15.4 -2.5 4.4 4.4 -2.6 -19.5	#1 # · ·	# FID D DIRECTION DEGRES(TN) 85.0 91.4 73.7 15.9 259.2 260.5	JEODL TIC COOKUINATES 32-40043 LAT DEG 106-57033 LON DEG KNOTS 5-3 4-5 2-2 3-9 10-7 19-6 11-9
STATION ALITTUDE 3989.00 FELT 26 NAY AL ASCENSION NO. 359	PRESSURE 6	MILLIPARS	A59.n	6. €0	ù•u<-2	0.69.7	P-0-59	U•009	550.0		7.5. 0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	0.50 0.034 0.004	4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	STATION ALTITUDE 3989.00 FELT WSL 26 NAY AL ALLASION NO. 359 ASCLINSION NO. 359 PRESSURE GEOPOTION 499 RSJ.0 659.0 659.0 103 ESSO.0 123 ESSO.0 1449 ESSO.0 1449 ESSO.0 1449		TN FIAL 10. 38. 47. 47.	TMFIAL TEW T DEGREES 10. 25.7 10. 25.7 10. 25.7 10. 4.4 17. 4.4 15.4 17. 4.4 15.4	TABLE 11 TABLE	TABLE 11 TABLE

DAIA GEODLIIC COOKDINATES 32.40175 LAT DEG 106.31232 LON DEG	REL.HUM. PERCENT	16.0	50.0	21.0	2 + *U	25.0	31.0	32.0	34.0	35•n	U•hh	υ•hς	31.0	30.0	31.0	53.0	34.0	45.0	56.0	47.0	45•0	50•0	63.0	71.0	71.0	0.60	₽ •• U	96•0
SIGNIFICANT LEVEL DATA 1460:30105 LC-37 TABLE 12	TEMPERATURE AIR DEWPOINT DEGREES CENTIGHADE	1.8	3.0	1.7	L	-2.1	-2.5	٥٠٤-	-3.h	か。オー	-6.1	-8.2	-15.8	-15.9	-16.5	-17.1	-21.4	-22.3	-50.9	-23.6	-25.7	8°C2-	-25.6	-25.3	-20°B	-33,8	-37.7	9.24-
SIGNIFIC 14 LC- TABLE 12	TEM AIR DFGREE	30.4	28.0	25.6	9.02	18.2	14.4	12.6	11.7	9 . 8	5.1	0•	₽•-	3.5	-1.6	-3.1	-8.4	-12.0	-14.1	-14.8	-16.6	-18.0	-20.4	-21.5	-23.0	-2A.3	-31.9	-37.1
.1	E GFOMETAIC ALTITUDE S MSL FEET	4051.4	4195.2	4875.0	6557.8	7249.3	8617.7	9332.5	9676.0	10317.9	11787.8	13597.0	15072.9	15452.4	15837.0	17058.4	19175.8	20755.2	21569.0	22634.1	22017.1	23815.2	24740.3	25132.7	26034.6	28304.7	29691.0	31533.4
STATION ALIITUDL 4051.37 FEET 11SL 26 may 61 13 no 1485 MDI ASCENSION NO. 105	PRESSURE	874.5	670.2	850.0	801.4	782•0	744.0	725•6	716.6	70.07	ე•€99	610.4	585.6	5.77.2	9.484€	545.8	0·v0¢	₩69+	454.8	h•911h	430.8	415.4	#10v•0	393.6	379.2	344.8	325•N	0.00¢

STATION ALTITUDE 4051 26 MAY 81 13 ASTERNATION NO. 105	.TITUDE 40	51.37 FFET 1300 HRS M	ET . ISL F D		UPPER AIN UNIA 1460180105 1.C-37	۲۸ 0 ت		JEODETIC 32.40	32.40175 LAT JEG
				_	TABLE 13				
GF UME TRIC	PRESSURE	TEM	TEMPERATUPE	RUL. HUM.	DENSITY	SPEED OF	WING DATA	41	INUFX
ALIITUDE NSL FEET	MILLIDARS	AIK DECKEES	CLNTIGRADE	PERCENT	GMZCUMIC METER	SOUND KNO IS	DIRECTION DEGREES (IN)	SPEED KNOTS	OF REFHACTION
4051.4	874.5	30.4	1.8	16.0	1090.6	679.H	120.0	1.9	1 • 000252
4500.0	861.1	56.9	5∙4	50.4	9000	675	142.5	1.4	.00025
J-000c	840.3	25.2	1.5	21.2	985.1	674.0	164.6	1.3	1.000249
5500.0	831.6	23.7	6•	22.1	972.9	672.3	210.2	1.7	1.000245
0.00na	817.2	22.3	•5	23.0	960.9	670.5	2<9.5	2.6	1.000241
0.500.0	800.0	20.8	9• -	23.9	9.1	_	22.3.5	0.4	1.000237
0.0007	77: 3	19.1	9-6	S • • • • • • • • • • • • • • • • • • •	1•956 1•956		5.30.8	ر. د	•
0.0001	76.1.3	0.77	10.0	100	976.0		7.962	\$ P	1.000230
0.002	747.7	1001	2.21	20 × 0 × 0 × 0 × 0	h•h16		6.047		*******
9000	734.4	13.4	1 2 6 1	5.00 5.00 5.00	C • 20.	0.100	7.1.57	10.01	1.00000
9500.0	721.2	12.2	3.6	33.0	878.4	2000	75.75	12.7	• •
10000.1	700.2	10.7	E + 17	34.5	866.9	657.2	244.1	11.6	
10500.0	695.3	9.5	-5.0	36.1	8.95.9	t55.4	257.6	11.4	
11000.0	682.6	7.6	-5.4	39.2	845.0	653.5	233.7	11.8	
11500.0	670.1	0.9	-5.8	45.2	834.3	651.6	235.0	12.4	
12000.0	657.	ະ.ນ	-6.3	45.2	823.4	_	257.9	13.2	1.000202
12500.0	040.0	3.1	9.4	1,7.9	812.5	_	245.5	13.5	
13000-0	530.5	1•/	h•/-	50.7	801.3	646.5	250.7	13.3	
13500.0	1.129	•	C (្ត ស្ត្រ ស្ត្រ	790.4	8.44.9	259•1	13.3	1.000193
14500.0) L	10.61	0.04	2.1.7	2.440	203.0	2.51	1.000188
15000.0	587.2	ω	-15.3	32.1	750.1	543.6	203.5	50.0	1.000102
15500.0	570.2	9•-	-16.0	30.1	735.7	543.5	254.7	8.1	1.000173
15000.9	565.3	-1.8	-16.5	31.3	724.9	644.1	251.3	8.0	
10500.0	554.5	-2.4	-16.8	32.1	712.7	641.4	8.547	8.7	1.000167
1.00071	L • + bC	-3.0	-17.0	32.9	700.8	9•049	255.9	9.6	
17500.0	555.6 57.4	ران خ-	-18.0	53.5	h•069	639.2	6.662	۳. ا	
12500.0	10.00 10.00	0.0	0.61-	3.50	#*0v4	637.1	0.407	11.	1.000159
14000.0	50.0) a	1010	93.67	6,0,0	5.000	7.1.7		1.000156
19500+0	9.000	100	-21.5	4.74	650	1940	F . C . Z		1.1000
20000-	0.484	-10.3	-21.8	38.2	0.049	631.0	20.302	15.0	1.000149
0.00402	474.6	-11.4	-22-1	40.7	631.1		283.3	17.5	
2100v·v	465.2	-12.6	-21.8	46.2	621.6		281.0	21.2	.0001
21500+3	450.1	-13.9	-21.0	54.13	612.3		580.4	24.8	1.000143
22000.0	0 • / 55	-14.7	-23.4	47.7	2.509		279.1	26.9	1.000139
22500.0	436.1	-15.7	-24.7	ڊي. ر	502.5	625.2	6.872	28.9	1.000137
23000.0	42,7 4	-16.7	-25.7	3°54	י עס	0.420	7.2.F	29.9	1.000154
23200.0	450.1	۲۰۶۱-	-25.8	7.84v	0,4√4	65,301	212.0	30.8	1.000132

STATION AL	STATION ALITIUDE 4051.37 FLFT 45L 26 MAY AL 1300 HIS 101	1300 1115 1300 1115	1 15L 101	-	UPPER AIN DATA 1460180105 LC-37	747A 05		JE 00F TIC	JE-ODE TIC COOKDINATES 32-40175 LAT LEG
ASCENSION NO.	Ch. 1 • 0N			,	TABLE 13 CON'T	T'NC		106.	106.31232 LON DEG
GEUNETRIC ALTITUDE MSL FEET M	PRESSURE MILLIDARS	TENT A1 ^R DEGMLES	TEMPERATURE A1R DEMPOINT DEGREES CEUTIGRADE	REL.HIM. PERCENT	DFNSITY GM/CURIC METER	SPEED OF SOUND KNOTS	WIND DAIA DIRECTION SI	SPEED KNOTS	INDEX OF REFRACTION
24000.0	412.3	-14.5	-25.7	52.6	563.0		270.8	30.3	1.000130
3.002+3	6.004	-19.8	-25.6	59.6	555.0	620.3	Z•602	59.9	1.000128
75000 T		-21.1	-25.4	68.3	540.0		508.6	30.2	1.000126
23500.0		-22.1	-25.9	71.0	537.6		50.3.9	30.5	1.000124
0.60002		-22.9	-261	71.6	528.4		270.0	31.2	1.000122
20500.0		-24.1	-24·2	68.5	519.0		2.075	31.7	1.000119
27000.0		-25.3	-59.7	6.50	511.5		270.4	31.7	1.000117
0.75no.n		-26.4	-31.3	63.3	503.3		270.7	31.7	1.000115
0.00085		-27.6	-52.8	9.09	495.2		h•1/2	31.8	1.000113
23500.1		-23.8	-34-3	59.6	487.3		272.0	31.5	1.000111
29000.1		-30.1	-35.7	57.5	479.6		272.1	29.3	1.000199
23500.9		-31.4	-37.2	56.4	472.0		272.0	27.6	1.000107
20000.0		-32.8	-39.5	56.0	464.6		271.3	27.6	1.000105
30500•0		-34.2	-39.9	56.0	457.3				1.000103
31000.0		-35.6	-41.2	56.0	450.2				1.000101
31500.0		-37.0	-42.5	56.0	443.1				1.000100

GEODETIC COORDINATES 32,40175 LAT DEG 106.51232 LON DEG															
JEODETIC 32,4(106+3)		<u>-</u>	KNOTS	1.2	£.4	11.7	11.3	13.7	11.1	6•A	12.1	26.2	30.1	31.8	
		WIND DATA	DEGISEES (TN)	172.9	559.6	246.7	239.0	239.0	266.4	253.4	781.1	279.9	569.4	271.3	
ivels 35		KEL.INUM.		21.	24.	30 .	35.	47.	41.	32.	34.	51.	63.	61.	26•
ANFATORY LEVELS 1460180105 LC-37	TABLE 14	TEMPERATURE H DEMPOTHI	DEGREES CENTIGRADE	1.7	₽••	-2.4	6.4-	9.9-	-12.1	-16.9	-21.4	-22.4	-25.6	-32.7	-42.0
V	TA	TEMPE	NEGREES C	25.6	20.4	15.0	d. 0	3.6	٦.۶	-2.7	-8.4	-14.5	-20·#	-27.5	-37.1
ָ יַּאַר בּיַנ		OPOTENTIAL	FEET	4871.	6602.	8410.	10308.	12305.	14417.	16693.	19149.	21800.	54699•	27899.	31470.
c 4951.37 FEET 1300 HRS M		PRESSURE GEOPOTENTIAL	MILLIBARS	850.0	A09.0	750.0	700.0	0.063	0.009	550.0	500.0	450.0	C•nUti	350∙0	300.0
STALLON ALTITUDE 4951.37 FEET 15L 26 MAY 81 1300 HRS MD 1 ASUN MS WN 105															

GEOULTIC COURDINATES 32.48043 LAT DEG 106.37033 LON DEG																		
יאַנא		KEL . HUM.	PERCENT	16.0	27.0	51.0	37.0	0.00	0.00	37.0	58 . N	38.0	48.0	0.08	0.90	70.0	58.0	43.0
SIGNIFICANT LEVEL DAFA 1460020360 WHITE SARDS		TEMPERATUNE	AIR DEMPOINT DEGREES CENTIGKADE	5.5	7.0	1.9	-2.8	a•c-	-7.1	-16,1	-15.0	-19.0	-24.7	-20°B	-24.7	-55.4	-20.4	2.44-
SIGNIF 10 14 WH1	TABLE 15		AIR DFGREFS	32.2	28.4	10.4	11.4	3.6	٤.٠	-3.6	-2.7	-A.n	-16.3	-18.2	-20.0	-21.4	-22.4	-36.2
		PRESSURE GLOMETRIC	ALTITUDE MILLIBAKS MSL FEET	3089.0	4A3A.5	7459.R	10328.9	12934.1	14237.6	15901.3	17044.3	19203.2	22684.1	23538.2	24768.8	25510.4	26130.4	31578.3
STATION ALTITUDE 3989.00 FEET MSL 26 HAY 81 191 HKS ND T ASCENSION NO. 369		PRESSURE	MILLIBAK	0.57€	850+P	770.4	7.00 L	635+B	005.3	56A•0	9+3+6	0.00G	4.55.4	450.6	0.00%	388.0	5.475	0+00;

	HPPER AIR LATA	
TAILON ALTITUDE 3989. NU FFFT INSE	1460020500	GEODETIC COORDIN
6 HAY BI 151 HRS M DF	WHITE SANDS	32.40043 LAT
Carlo Control		

STAIION AL 26 HAY BI	1)Dr 39	89.nu FF[1 1501 HRS M DF	I ESL MOT		UPPER AIR DATA 1460020350 WHITE SANDS	Ln TA US		0£00£11 32•	GEODETIC COOKUINATES
ASCENSION NO.	40. 350			Τ-	TABLE 16			106.	106 .3 7033 LON DEG
GEONE TRIC	PRESSURE	TEMP	TEMPERATURE	REL . HIII.	DENSITY	SPICED OF	MIND DATA	4	INDFX
AL LITOUE MSL FEET	MILLIUARS	A1K DEGKLES	DEMPOINT CENTICRADE	PERCENT	GM/CURIC METER	SOUND KNO I S	DIKECTION DEGREES (TN)	SPEED KNOTS	OF REFRACTION
3989.0	87.00	32.2	3.2	16.0	6.466	681.9	300.0	6.0	1.000253
+000m	874.7	32.2	3.3	16.1	7.466	681	2999.6	6.6	1.000253
4500.0	859.9	5.62	6.3	22.6	984+3		293.1	10.4	1.000259
5000.0	845.2	27.9	7.3	27.2	975.n		0.782	11.0	1.000200
5500.0	830.6	26.3	6.3	27.9	962.1		281.c	•	1.000255
0.0000	810.3	74.7	5.3	28∙6	950 B		270.0	•	1.000250
0.500.0	805.2	25.1	E • 0	29.4	936.6		272.1	13.3	1.000245
7000-0	780.3	21.5	2°%	30.1	928.6	_	208.3	13.6	1.900241
7500.0	774.7	19.9	₹	30.A	917.7		204.1	13.8	1.000236
0.0000	0.197	18•4	۳) •	31.8	4.906		200 · 1	34.0	1.000232
8500.0	(4/+)	6.0	ស្ :	32.9	895.0	_	259•1	13.8	1.00022B
0.0006	79407	15.4) (34.0	883.7	9.790	4.762	13.7	1.000224
95996	700.3	13.9	۲۰۰۲ ۱	35.1	8/2.7	-	255.48	•	1.000220
1.500.0	4.404	10.0	1000	37.0	861.8 850.9	2.659	0.007	10.4	1.00011
11000	0.000	F - C	7.7) to 1	0 70 1		6.402	20.01	1.00021
11500.0	670.4	7.0	70.00	0 0 0 0 0	9.90.A		7. TO 7.	12.7	1.000210
12000.0	650.1	5.4	4.5	45.3	818.1		754.0	0.55	1.000203
12500.0	640.1	0.4	-5.5	47.8	807.5	_	253.2	13,2	1.000200
13000.0	634.2	3.4	6.5-	50.5	797.0	_	252 • 4	13.5	1.000197
13500.0	622.4	1.9	-6.43	54.3	780.4		251.0	13.8	1.000194
14000.0	610.7	†	-6.8	58.5	770.0	-	h•64Z	14.1	1.000191
14500.0	594.3	K	カ・レー	56.4	765.0	-	250.1	13.5	1.000187
15000.0	587.9	9•1-	-11.0	7.64	753.5		7.75.1	12.5	1.000181
15500.0	2/0/0	6.2	-13.7	C • 22	742.2	641.0	7.5.1	11.7	1.000176
10000	760.8	۲. ن	1.5.0	37.1	730.2		4.757	11.3	1.000172
17000-0	4000	-0.T		ر ا د و و د	700.		0.002	6.11	1.0001.0
0.00471	7000	H	1.41	0.00	0.069	1.150	0.00	7 4 6	1.00014.1
0.00081	8,004	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-17-1	00° 8%	679		7-110-7	13.7	0.1000.4
10500.0	510.0		7.51	38.0	670-0		2.203	14.5	1.000157
1.3000.0	6.004	-7.5	-17.3	58.0	2.099		6+80Z	15.2	1.000154
19500.0	491.1	7.61-	-201-2	30.9	650.3		208•1	16.2	1.000152
2000 0 2	₩• +₩::	6-6-	-711.8	40.3	640.5	-	2t.0 • U	17.5	1.000149
Ú•00¢n>	474.9	-111.1	-71.5	41.7	630.7	_	20703	19.5	1.000147
21000.0	460.5	-12.3	-25.5	43.2	621.5	3.620	203.1	21.5	1.000144
21590•n	n • 0 S t	-13.5	-22.9	9.44	611.3	623.0	273.2	23.6	1.900142
22000.0	1. · / 11	1-14.7	-23.7	0.91	5.209		2,0,2	25.5	1.000139
0.00052	3 ° 7 ° 3	200	* * * * * * * * * * * * * * * * * * *	٠٠/ ١٠/ ١٥/	503.	1.929	2/4.6	26.4	1.000137
2381111111		1	1010	0.4.0	1.4.0	2-624	T • 6.7.2	7•Q2	1 • 11(1) 1 > 1

				_	OPPLR AIP U.IA	\ \ \ \ \ \			
STATION AL	if.1. 101,111	Agenu Fre	-15- -15-		14600 360	מפ		OLODL 11	GLODE TIC COURDINATES
26 11AY (1.1	-	1511 : 185 sigi	.o₁		WHITE SAIRS	ני		32.	32.40043 LAI LEG
ASCENSION	110. SeA							106.	106.37033 LON DEU
				•	TABLE 16 CON'T				
GFUNETRIC	PRESSURE	d⊠.ij	ERATURE	REL.HIM.		Portion of		1 A	INULX
ALTITUDE MSL FEET	HILLIUAPS	AIR DEGNEES	AIR DEMPOINT DEGNEES CENTIGRAPE	PERCENT	PERCENT 6MZCURIC METER	500MD R1018	DIRECTION DEGREES(TW)	SPFEI) KIIOTS	OF REFRACTION
€3500+€	421.3	-19.1	-20.9	79.6	574.8	6220	277.5	26.2	1.000135
74000°	416.7	-13.9	7-67-	74.7	564.9		273.4	26.7	1.000132
24500.0	†*+ U†	-19•6	-23.8	o 9. 1	5555-2	0.50	200.3	27.2	1.000129
25000.0	390.2	4.0%-	-24.9	67.2	545.8		26.5.3	27.9	1.000126
25500.0		h•12-	#*42 <u>-</u>	64.69	536.7		0.402	28.3	1.000124
0•00na≥		-22.2	-27.7	60.5	527.5		502.5	28.8	1.000121
20200+A		-23.3	4-62-	57.0	518.9		208.3	29.4	1.000119
9.000√₹		-24.6	-30.9	55.0	510.6		zn9•1	29.1	1.000117
27500.0		-25.9	-32.3	2.45	4.50c		263.3	28.4	1.000114
2dn00.9		-27-1	-53.B	52.9	5. 10. 11		209.1	27.2	1.000112
24500•n		n•8८-	-35.2	51.5	9•08h		6.907	26.3	1.000110
0.000k2		-29.7	-36.7	50.1	476.H		20Q•2	25.9	1.000108
6.9500.0		-30.9	-34.1	48.7	471.2		203.0	27.0	1.000106
30000		-34.2	-33•6	47.3	463.7		267.0	27.9	1.000105
30500•0	514.1	-35.5	1.14-	46.0	4.96.4		265.3	28.5	1.000103
31000.0	301.5	2.45-	G•24=	44.6	449.2				1.0001.11
31500.0	501.1	-36.0	Û•1,1,-	43.2	442.1				1.000099

6E0DLTC C00kDTUATES 32.40043 LAT DEG 106.37033 LON DEG	3	2.5												
of 60t 3 10	VIO DATA	IN) KNO1S	10.7	10.4	13.9	13.3	13.2	13.6	12.2	15.5	24.8	27.6	27.2	
	irla A Lucia	ULGREES (TN)	289•0	272.0	259.4	255.0	255.4	750.0	554.4	269.5	275.4	265.6	269.1	
VLLS ob is	Kt. L. HUM.	LE KCEN	27.	-67	35.	37.	47.	57.	38.	38.	46.	•60	53.	4 %
CIANDATORY LEVELS 1460020300 WHITE SAIDS TABLE 17	TEMPERATURE	DEGREES CENTIGRADE	7•6	4•1	9.	9•2−	-5.0	-A-2	-15.3	-19.8	-23.5	-24.7	-33.7	C + 11 11 -
47	-	DEGREFS O	28.4	22.9	17.2	11.4	\$•\$	۲ ٠ -	-2.9	-3.0	-14.3	-20.0	-27.0	-36.2
1 ISL MD1	PRESSURE GEOPOTENTIAL	FELT	4835.	∪5°3•	6407.	10319.	12329.	14452.	10717.	19176.	21631.	24727.	27936.	51515
STALLON ALLITUDE 3989.60 FFET ISL 26 JAY 61 1811 HRS ADT ASCENSION 140. 309	PRESSING G	MILLIPARS	9,9G	A03.P	U•U5.4	7007	N-049	₽•009	0.00€	U•00S	6. €05#	~• 00ti	350.0	3000

